

## January Meetings

### Dates & Times

Matinee, 2:30 p.m., Wednesday,  
January 13, 1982

Evenings, 8:00 p.m. Wednesday and  
Thursday, January 13 and 14, 1982

### Place

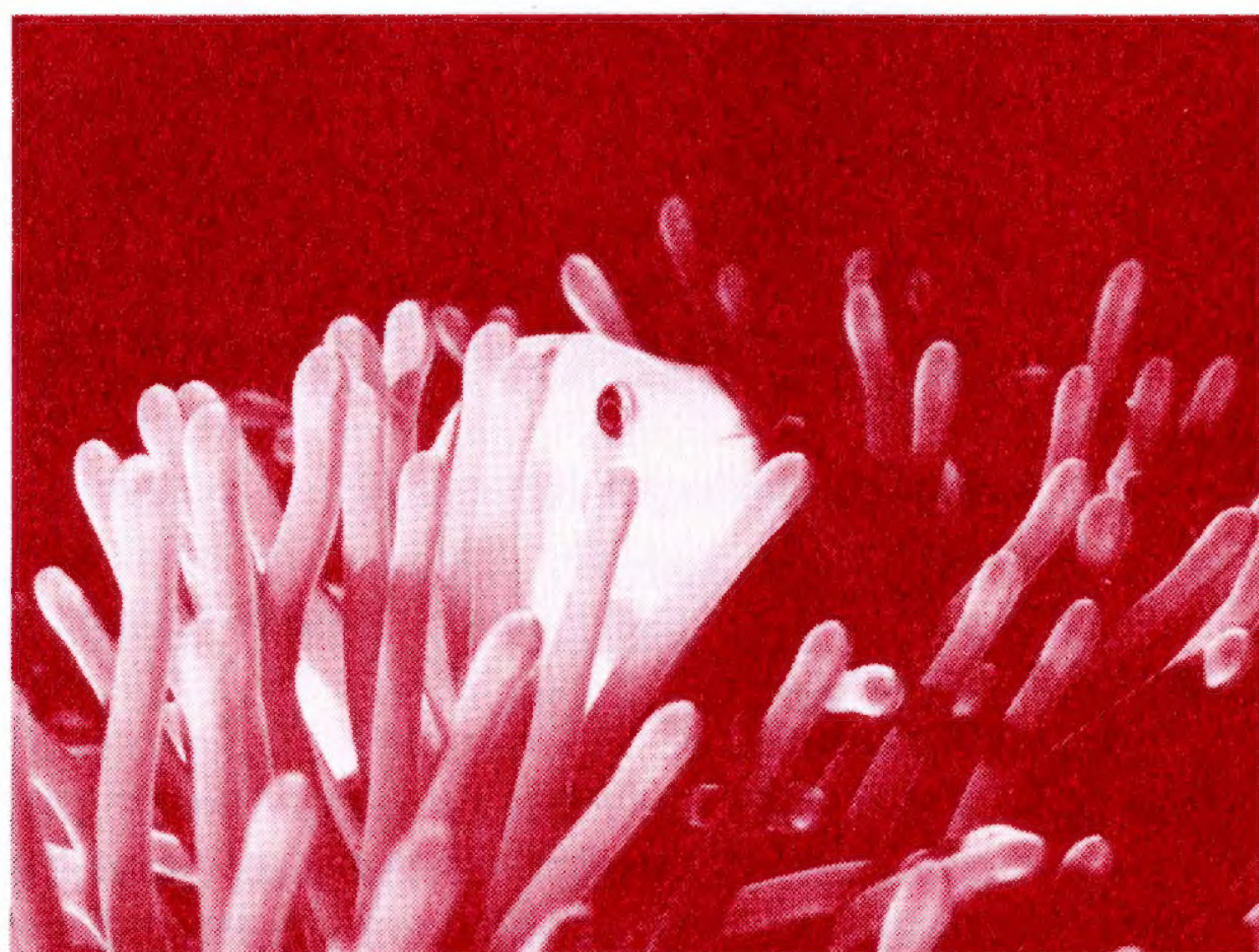
May Treat Morrison Auditorium

### Speaker

Carl Roessler

### Subject

"The Coral Sea"



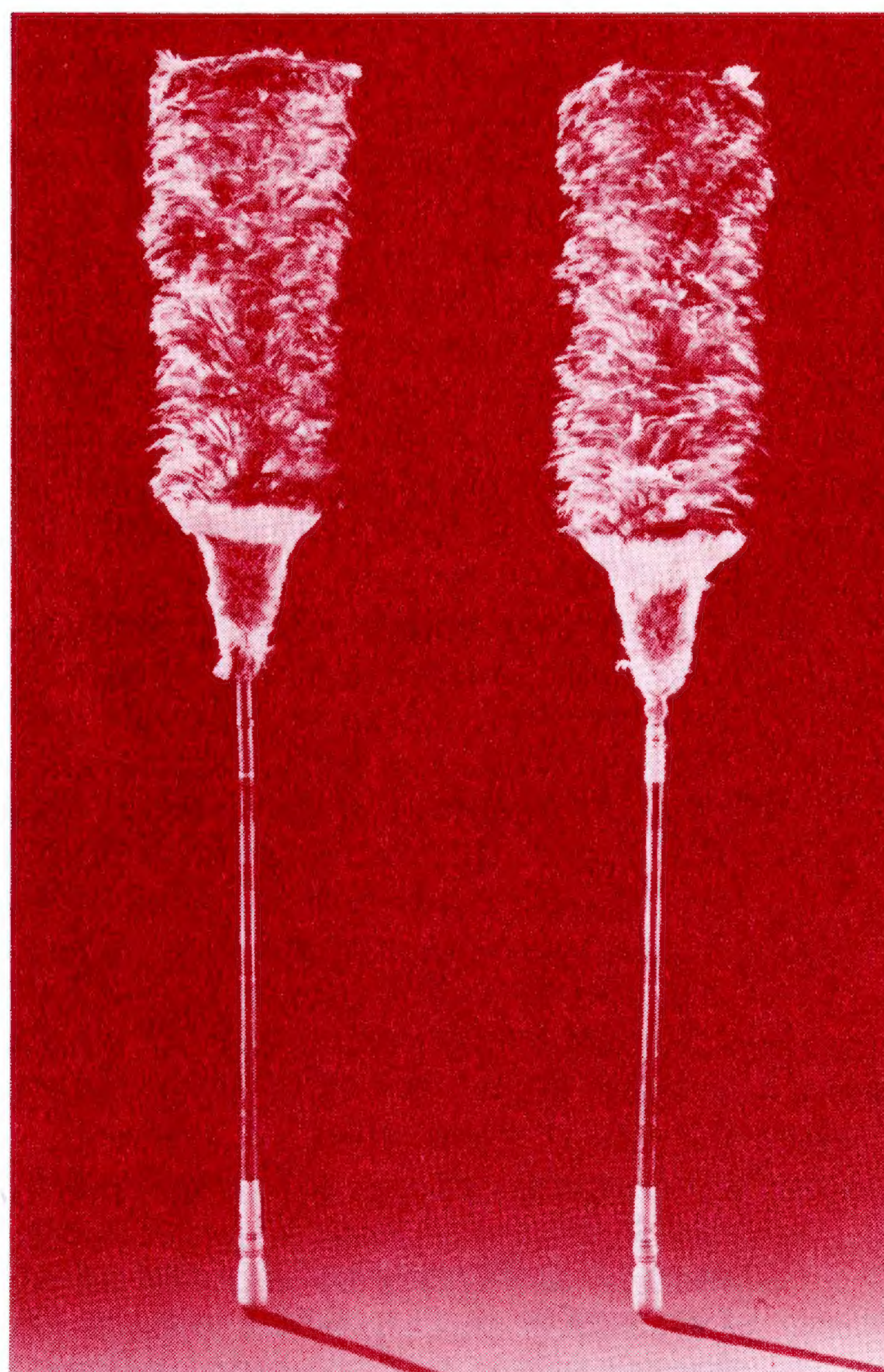
Off the Queensland coast of Australia lies the Great Barrier Reef, and a hundred miles beyond the outer limits of the Reef is a group of atolls which offers some of the world's greatest diving.

Here in the crystal clear waters of the Coral Sea lies a kingdom of marine wonders. Beyond the occasional fishing boat, these lonely, remote outposts go months without the intrusive presence of man and as a result the reefs are a tapestry of color and life. Divers who explore this wonderland are also treated to encounters with the larger pelagic species such as sharks and tuna, which are drawn from the open water to the immense coral structures.

Carl Roessler recently completed his tenth expedition to this area and his slides portray the color, action and beauty of these remote coral reefs.

Your membership card admits you through the main entrance of Cowell Hall for the evening presentation and through Cowell Hall and Wattis Hall entrances for the matinee. Please be prepared to show your card once again at the auditorium door for the matinee presentation.

## Special Exhibits



**Hawai'i: The Royal Isles** continues in the Patricia Price Peterson and Atholl McBean Galleries through January 31. This colorful and fascinating exhibit gives an overview of the islands since the arrival of Captain James Cook in 1778. Included in the exhibit are drawings, wooden and stone images, ceremonial objects and utilitarian artifacts. Feather capes and leis are among the most beautiful pieces on display. Other feather objects include the hand *kahili*, pictured above, which were originally used as fly-flaps, but by the 19th century signified the presence of royalty.

A fully illustrated catalogue of the exhibit, published by the Bishop Museum Press, is available at the Nature Company Museum Shop for \$18. The exhibit was organized by the Bernice Pauahi Bishop Museum in Honolulu, and is funded by United Airlines and the National Endowment for the Humanities.



Original paintings and color plates from his well-known Field Guide series are part of the exhibit **Roger Tory Peterson: Portrait of a Birdwatcher**. (Through March 14, in Lovell White Hall and Hohfeld Gallery II). Also included in the exhibit are memorabilia from Peterson's studio in Old Lyme, Connecticut.

Three fine arts posters commemorating the Roger Tory Peterson exhibition are for sale at the Nature Company Museum Shop, and a complete line of Peterson Field Guides is available from \$6.95 to \$15.

Continuing photo exhibits are: **The Black-tailed Deer** - by Napa photographer Ken Herrington; **Flight** by Frans Lanting and David Cavagnaro; and **Egrets** by Philip Loring Greene.

## Morrison Planetarium

An exciting new show "**Cosmic Catastrophes**" opens January 8 in the Morrison Planetarium. . . . did the impact of a gigantic asteroid cause the extinction of the dinosaurs after they had dominated the Earth for millions of years? Did a piece of a comet hit Siberia in 1908, exploding with the energy of a nuclear bomb? Will the sun, some five billion years from now, swell to an incredible size and engulf the Earth? Or, this year, will the planets line up and cause devastating earthquakes in California? Explore the possibility of such cosmic catastrophes and examine the evidence for



yourself at **Cosmic Catastrophes!** (January 8 through April 18)

Showtimes: Monday through Friday  
at 2:00 p.m.  
Saturday and Sunday  
at 12:30, 2:00 and 3:30 p.m.  
Wednesday and Thursday  
at 7:30 p.m.

*Note: "The Christmas Star" will continue through January 3, then the planetarium will be closed from January 4 through 7.*

Our popular weekend show **Exploring the Skies of the Season** can be seen every Saturday and Sunday at 11:00 a.m. Please use your complimentary passes for free admission to all of these shows.

## Light Shows

Brighten up the post-holiday season with a visit to Eye See the Light Show, Inc's exciting light show presentations under the 65-foot dome of the Morrison Planetarium.

Showtimes:

**War of the Worlds** - Friday and Saturday  
at 7:30 p.m.

**Lights Fantastic** - Saturday and Sunday  
at 5:00 p.m.

**Rock Fantasy** - Friday and Saturday  
at 9:00 and 10:30 p.m.

**Spotlight: Journey** - Thursday and Sunday  
at 9:00 p.m.

Tickets are available through BASS at 835-3849. Admission is \$3.75 for adults and \$1.75 for seniors (65 and over) and children under 10. Members are reminded that this is **not** a regular planetarium show, so your planetarium passes are **not** usable for this attraction.

*Please note: There will be no shows on January 4 through 7.*

### Scientific Publications

A new monographic series entitled *Flora of Chiapas* has begun with the publication of the first two parts. Part 1 of the *Flora*, "Introduction to the *Flora of Chiapas*," by Dennis E. Breedlove, Curator of the Department of Botany, describes the scope and plan of the *Flora* and physiographic regions of the state of Chiapas, Mexico. Chiapas, the southernmost state and the major tropical region of Mexico, "is the meeting ground of southern

tropical and northern temperate floras. The peculiar geologic and edaphic conditions of the area have given rise to many endemic species." Dr. Breedlove, who has spent more than six years in Chiapas collecting forty-eight thousand sets of herbarium specimens since 1964, "has undertaken, with the active collaboration of a number of colleagues, the monumental project of compiling and publishing a comprehensive account of all of the vascular plants known to occur in Chiapas." (Quotes from Foreword by George E. Lindsay.)

Part 2, "Pteridophytes" (370 pages, 82 line drawings) treats the 630 or so species of ferns and fern allies, or about 7-8 percent of the approximately 8000 vascular plant species known from the state of Chiapas. The author, Dr. Alan R. Smith of the University of California, Berkeley, is a Fellow of the Academy and one of the leading experts on tropical ferns. The superb line drawings of 106 species representing 90 genera were rendered by Colleen Sudekum, Elly Simmons and Lisa Handwerg.

*To Order:* By telephone call (415) 221-5100 ext. 220. By mail send a check made payable to the CALIFORNIA ACADEMY OF SCIENCES for \$3.25 (including postage and handling) for Part I and \$31.00 (including postage and handling) for Part II, Golden Gate Park, San Francisco, CA 94118 Attn: Scientific Publications Department. (California residents please add 6½ % tax).

**Spring in the Bay Area means it is Junior Academy time again.** . . don't miss registration day on Saturday, February 6 from 10 a.m. until 3 p.m. in the Goethe Room. Registration will continue Monday, February 8 through Friday, February 12 in the Junior Academy from 10 a.m. until 3 p.m. each day. Classes are open to students from six to sixteen who have an interest in the natural sciences.

Membership to the Junior Academy is \$5.00 per year and is waived if parents have a family membership to the Academy. Call 221-5100 ext. 221 or write the California Academy of Sciences for additional information and a complete class schedule and outline.

## Special Lecture



### Harmonizing with Islam

Speaker: Antony Hutt  
Thursday, January 21, 1982 8:00 p.m.  
Morrison Auditorium

Antony Hutt, a leading authority on Islamic art history and architecture, acts as a consultant for Islamic developers who want their new buildings to reflect an Islamic rather than a western cultural heritage. He is concerned about the need for preserving the values of the very old muslim traditions particularly in the architectural field.

In this slide/lecture, Hutt will cover the architecture of the Islamic world, taking examples from different countries to show how the various forms evolved.

Many Academy members will know Hutt from his lecture here in October 1981, on the "Four Himalayan Kingdoms". Antony Hutt is a photographer, lecturer and scholar, has led numerous archaeological expeditions into the Middle East and has lectured extensively throughout Great Britain, the United States, Canada and Australia.

*Admission to this special lecture is free.*

"Harmonizing with Islam" will serve to introduce members to "The Heritage of Islam", an exhibit scheduled to open at the Academy in July of this year.

## Inside the Academy



## IMPORTANT NOTICE!

The dates for the Adult Education Course **WINTER PHOTOGRAPHY IN YOSEMITE** are **INCORRECT** in the new Spring Activities calendar.

The **CORRECT** dates are:  
February 10 and March 3 (two Wednesday lectures).  
February 19-21 (field trip — Friday through Sunday).

### Sailing the Caribbean

February 4 - 15

Dr. Sylvia Earle will lead a tour to the exotic Leeward and Windward Island chain in the Caribbean. Sailing aboard the luxurious square-rigged tall ship, the *Sea Cloud* to Antigua, St. Lucia, Bequia, Mustique, Tobago Cays, and Iles des Saintes, members will discover the lush beauty, colorful towns, and remote sea coves which are ideal for snorkeling, in this lovely island chain. This trip is co-sponsored with the Stanford Alumni Association. Costs range from \$2445 to \$4645 plus air fare. Space is limited. For information, please call the Academy Travel Office at (415) 221-5100.

### Baja California Gray Whale Expedition

February 4 - 12

This 9-day cruise along the west coast of Baja California follows the migration of the California gray whales. Passengers aboard the *Qualifier 105* will visit the San Benitos Islands, San Ignacio Lagoon, Cedros Island, and San Martin Island. There will be numerous opportunities to photograph and observe the abundant wildlife of the area and a good chance of meeting many of the "friendly whales" of San Ignacio Lagoon. For information, please call Nature Expeditions International at (415) 494-6572.

### An Indian Ocean Odyssey

April 15 - May 16

Embark on the *Lindblad Explorer* in Singapore for a voyage in the Bay of Bengal and across the Indian Ocean. Ports-of-call during the first portion of this journey include Phuket in Thailand, Rangoon, and flights to Pagan and Mandalay in Burma, and Trincomalee and Colombo in Sri Lanka. The Maldiv Islands and the Seychelle Islands are the exciting destinations of the second portion of the voyage. You may select one or both programs. For information, call the Academy Travel Office at (415) 221-5100.

### Chesapeake Bay and Highlights of the Smithsonian

May 4 - 15

With the leadership of geologist Charles Chesterman, members will fly to Washington, D.C. to begin a fascinating tour through our nation's vast museum complex, the Smithsonian Institution. Special tours have been arranged to include many behind-the-scenes visits to the Natural History Museum, the National Air and Space Museum and more. Some time will be spent viewing the monuments and government buildings of picturesque Washington, D.C. before members embark on an exciting 7-day cruise through Chesapeake Bay. Cost is \$1403 for land/cruise arrangements and \$450 for air. For information, please call Siemer & Hand, Ltd. at (415) 788-7186.

### Alaskan Cruises - wait-list only

May 7 and May 17

Members will board the *M.V. Majestic Alaska Explorer* for cruises into the more remote regions of southwest Alaska. Participants will explore fiords, bays, beaches, and observe black bears and humpback whales. Dr. and Mrs. Robert T. Orr will accompany Academy members on both cruise dates. The cruises are filled, however you may enter your name on a wait-list. For information, call the Academy Travel Office at (415) 221-5100.

### Snake River Birds of Prey Expedition

May 22 - 27

Naturalists Bob Nansen and William Meiners will lead Academy members on a six-day field study tour into the scenic Snake River Birds of Prey Area. The densest known nesting population of birds of prey, including 14 species of falcons, eagles, hawks, owls and more than two hundred pairs of the rare prairie falcon, live in the Snake River canyon. From home base in Boise, outings will be by van and by foot, plus two "day" float trips on the Snake River. Cost is \$650 per person, plus air fare. For information, please call Betchart Expeditions at (408) 245-9517.

### Darwin's Galapagos

June 30 - July 13

Friendly sea birds, sea lions, marine and land iguanas, and famous Galapagos tortoises await Academy members on our annual tour to those "living laboratories of evolution" known as the Galapagos Islands. We will cruise in comfort aboard the M.V. Santa Cruz through the island chain, going ashore by small boats called "Humbers" and exploring on foot. A fine group of naturalists will lecture on the splendid array of flora and fauna and the geologic history of the islands. Costs range from \$2400 to \$3230 per person, depending upon your accommodations aboard, plus air fare. For information and a colorful brochure, please call the Academy Travel Office at (415) 221-5100.

### Kenya Safari

August 6-28

### Gorilla Tracking in Rwanda

August 26 - September 4

Kenya is a land of great contrasts, from broad sweeping savannah lands to lush mountain peaks. This special itinerary is designed to cover the diverse regions of this colorful African country. Dr. Robert Drewes will lead members on a safari that includes Tsavo National Park, Amboseli National Park, Mountain Lodge for night-time game viewing, Samburu National Park, and camping in the Lake Baringo area and the Maasai Mara Game Reserve. We will fly to Mombasa to relax on Kenya's scenic beaches



## New Members

before our return home. An optional extension into the jungle regions of Rwanda to meet, face-to-face, with the remarkable mountain gorillas is offered for those who wish to participate in a truly unique African experience. Cost is \$3190 for the Kenya portion, plus air fare. The Rwanda extension is \$1115 plus air fare. For information, please call Siemer & Hand, Ltd. at (415) 788-7186.

### New Life Members

Dr. David L. Chittenden  
Mr. Frederick William Duewer  
Ms. Rebecca Susanna Duewer  
Mr. Lester C. Gunther, Sr.  
Ms. Martha S. Williams

### Sustaining

Mrs. Pedro G. Beltran  
Ms. Irene M. Fenton  
Mrs. Frank Hittell  
Mr. Dorian Krausz  
Mr. and Mrs. Andrew Therol

### Contributing

Mr. K.W. Addleman  
Mr. and Mrs. Joseph C. Akzam  
Ms. Lois L. Alhaimer  
Mrs. Helen L. Amoroso  
Mr. and Mrs. Thomas J. Bezouska  
Mr. and Mrs. Gordian Boteilho  
Mr. and Mrs. Courtney J. Catron  
Mr. and Mrs. E.J. Ciesluk  
Mr. and Mrs. James W. Clark  
Dr. Jeffrey A. Coderre  
Mr. and Mrs. Charles Colety  
Ms. Naomi Conroy  
Mr. and Mrs. Mario V. Conti  
Mr. and Mrs. Alan Culbertson  
Mr. Harold B. Davis  
Mr. Stephen De Witt  
Mr. and Mrs. J. V. Dinkey  
Mr. Ted H. Ewert  
Mr. Thomas Fleming, Jr.  
Mr. Pieter Folkens  
Mr. Bruce Foutch  
Mr. David C. Gallivan  
Tom and Pam Gerfen  
Mr. Roland A. Giotti  
Mr. Maurice W. Gregg  
Mr. and Mrs. Jon N. Halverson  
Mr. and Mrs. Andrew Holland  
Dr. Mitchell D. Hoyle  
A. Huffman  
Mrs. Judith S. Johnson  
Mr. Thomas Knapik  
Mr. and Mrs. Dale E. Kocienski  
Ms. Jean O. Kristiansen  
Deborah Krukonis and  
Vincent Peloso  
Ms. Margaret E. Lach  
Mr. and Mrs. W.P. La Mere  
Mr. and Mrs. Forrest Landeen  
Ms. Carla Jane Larson  
Mr. Ralph J. Larson  
Ms. Antoinette H. Leitgeb

Mr. and Mrs. Dennis L. Livingston  
Mr. William Lowe  
Mr. and Mrs. Charles H. Lupsha  
Mr. William I.H. MacKenzie  
Debbie and Mike McCarthy  
Mr. and Mrs. Richard McMichael  
Mr. and Mrs. Allen E. Meier, Jr.  
Ms. Nancy Menken  
Mr. and Mrs. Michael C. Morgan  
Mrs. Nancy B. Moyle  
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Ms. Elaine O'Gara  
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Mrs. Russell D. Saunders  
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Mrs. R. Sebastian  
Ms. Irene Senecal  
Drs. Ben & A. Jess Shenson  
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Mr. and Mrs. John J. Spring  
Dr. and Mrs. Frank F. Stangl  
Otto and Mary Steinhardt  
Mr. A.K. Stull  
Mr. & Mrs. Edward B. Sylvester  
Mrs. Esther H. Talmadge  
Linda Vossler-Swan & Bert Swan  
Mrs. Doris Walker &  
Miss Emily Roberson  
Mr. William Watson  
Dr. and Mrs. C.A. Webster  
Ms. Josephine West  
Dr. and Mrs. Craig Winkel  
Dr. Les K. Yim  
Ms. Carol Zakharoff

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January, 1982

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